

# Work Order ID 65362

January 12, 2011 3:50:35 PM



SHIP TODAY

Page 1

Item ID: DSI 9494-011

Accept



Setup Start



Revision ID:

Stop



Item Name: 212/412 Canister Upgrade

Start Date: 1/12/11 Start Qty: 1.00



Cust Item ID:

Required Date: 1/13/11 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: *mk*

Date: 11-01-12

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

DSI 9494

A

100

0.00



DC

Document Control

Memo

Photocopy bluefile & type labels per PPP DSI 9494-011  
CHG001

0.00

*5/1/13*

110

Pick Kit

0.00



Packaging

Packaging

Memo

0.00

*6/11/13* (1)

120

QC4- 100% Inspect kits for completeness

0.00



QC

Quality Control

Memo

0.00

*8/10/13*

(7)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 65362**

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Item ID: DSI 9494-011

Accept



Setup Start



Revision ID:

Stop



Item Name: 212/412 Canister Upgrade

Start Date: 1/12/11 Start Qty: 1.00



Cust Item ID:

Required Date: 1/13/11 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP DSI 9494-011

Location: \_\_\_\_\_

PPP rev: \_\_\_\_\_

11/01/12  
MF

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/01/12  
MF

11-01-13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Work Order ID: 65362

Parent Item: DSI 9494-011

Parent Item Name: 212/412 Canister Upgrade

Start Date: 1/12/11


Required Date: 1/13/11

Start Qty: 1.00

Required Qty: 1.00


Comments: IPP Rev:A new issue DD 10.03.31 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN815-8D  Union-M-Flare		Purchased	No			110	Each	14.0000	1	1			
----------------------------------------------------------------------------------------------------------------	--	-----------	----	--	--	-----	------	---------	---	---	--	--	--


Location	Loc Qty	Loc Code
----------	---------	----------

ST329	14	
113749	4	
114544	10	

AN833-8D  ELBOW		Purchased	No			110	Each	15.0000	1	1			
--------------------------------------------------------------------------------------------------------	--	-----------	----	--	--	-----	------	---------	---	---	--	--	--


Location	Loc Qty	Loc Code
----------	---------	----------

ST333	15	
114341	6	
114544	9	

AN924-8D  NUT		Purchased	No			110	Each	13.0000	1	1			
--------------------------------------------------------------------------------------------------------	--	-----------	----	--	--	-----	------	---------	---	---	--	--	--

Location	Loc Qty	Loc Code
----------	---------	----------

ST335	13	
114341	5	
114544	8	

D3262-043  Canister Assembly		Manufactured	No			110	Each	3.0000	1	1			
-----------------------------------------------------------------------------------------------------------------------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

Location	Loc Qty	Loc Code
----------	---------	----------

ST144	3	
59738	3	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Page 2

Work Order ID: 65362

Parent Item: DSI 9494-011

Parent Item Name: 212/412 Canister Upgrade

Start Date: 1/12/11

Required Date: 1/13/11

Start Qty: 1.00

Required Qty: 1.00

D3299-7

Manufactured No

110

Each

11.0000



Fitting

Location

Loc Qty

Loc Code

ST050

11

57411

11

110

Each

11.0000

D4054-001

Manufactured No



Tube Assembly

Location

Loc Qty

Loc Code

ST193

11

58155

7

58970

4

110

Each

11.0000

D4054-003

Manufactured No



Tube Assembly

Location

Loc Qty

Loc Code

ST193

11

58156

7

58971

4

110

Each

5.0000

D4054-009

Manufactured No



Tube Assembly

Location

Loc Qty

Loc Code

ST193

5

58157

5

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Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

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Work Order ID: 65362



Parent Item: DSI 9494-011



Parent Item Name: 212/412 Canister Upgrade

Start Date: 1/12/11

Required Date: 1/13/11

Start Qty: 1.00

Required Qty: 1.00

MS29512-08

Purchased

No

110

Each

20.0000

2

2



O-RING

*Signature* 1/13/11 (1)

Location

Loc Qty

Loc Code

ST294

20

113706

20

113706

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Shop Packet Print

Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-706 REV. A AND ICA-D412-706 REV. 0

REF TCCA STC: SH04-54  
REF FAA STC: SR02055NY  
REF. EASA STC: EASA.IM.R.S.01180

**REFERENCE ONLY**

**DESCRIPTION:**

AT CHG 002, THE D412-706-011 FUEL PURGE CANISTER INSTALLATION HAS BEEN MODIFIED WITH LARGER VENT LINES TO ELIMINATE BACK PRESSURE THAT MAY OCCUR WHEN STARTING THE SECOND ENGINE IF THE CANISTER HAS NOT BEEN PROPERLY DRAINED. THE BACK PRESSURE IS EVIDENCED BY AN ONGOING VAPOR DISCHARGE FROM THE CANISTER VENT AT LOW TO MEDIUM RPM WHILE STARTING THE 2nd ENGINE. THE UPDATED PARTS LIST IS SHOWN BELOW:

**IS**

QTY 011	PART NUMBER	DESCRIPTION
X	D412-706-011	FUEL PURGE CANISTER INSTALLATION (212/412)
1	D2001-4	VALVE ASSEMBLY
1	D3262-043	CANISTER ASSEMBLY (WAS D3262-041)
2	D3264-1	BRACKET
1	D3297-1-0098	HOSE ASSEMBLY
1	D3297-3-0085	HOSE ASSEMBLY
1	D3297-3-0210	HOSE ASSEMBLY
1	D4054-001	TUBE ASSEMBLY (WAS D3298-001)
1	D4054-003	TUBE ASSEMBLY (WAS D3298-003)
1	D3298-005	TUBE ASSEMBLY
1	D3298-007	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY (WAS D3298-009)
1	D3299-7	FITTING (WAS 3299-1)
1	D3299-3	FITTING
1	D3299-5	FITTING
1	D3301-1	PLACARD
1	D3301-3	PLACARD
1	D3302-1	DOUBLER
1	D3302-3	DOUBLER
2	D3329-1	BUSHING
4	AN3-5A	BOLT
1	AN814-6D	PLUG
2	AN815-6D	UNION
1	AN815-8D	UNION (WAS AN815-6D)
1	AN832-6D	UNION
1	AN833-6D	ELBOW
1	AN833-8D	ELBOW (WAS AN833-6D)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY: [Signature]  
D. SHEPHERD (DE # 02)

DATE: 10.01.07  
CERT. NO.: SH04-54  
ISSUE NO.: 1

A	NEW ISSUE	RF	10.01.07
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<u>[Signature]</u>	DRAWING NO. REV. A	
MFG. APPR.	<u>N/A</u>	DSI 9494 SHEET 1 OF 3	
APPROVED	<u>[Signature]</u>	TITLE SCALE	
DE APPR.	<u>[Signature]</u>	212/412 CANISTER UPGRADE KIT NTS	
DATE 10.01.07		<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

Continue from previous sheet

4	AN924-6D	NUT
1	AN924-8D	NUT (WAS AN924-6D)
1	AN938-6D	TEE
4	AN960JD10L	WASHER (OR NAS1149D0332J)
8	AN960JD10	WASHER (OR NAS1149D0363J)
2	AN960JD916	WASHER
4	MS21042L3	NUT
2	MS21919WDG9	CLAMP
2	MS21920-42	CLAMP
8	MS29512-06	O-RING (WAS MS28778-6)
2	MS29512-08	O-RING (WAS MS28778-6)
1	MS35489-11	GROMMET

REFERENCE ONLY

FOR CUSTOMERS WHO HAVE EXPERIENCED THIS PROBLEM IN SERVICE, THE DSI 9494-011 UPGRADE KIT IS AVAILABLE TO UPGRADE THE INSTALLATION FROM CHG 001 TO CHG 002.

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9494-011	212/412 CANISTER UPGRADE KIT
1	D3262-043	CANISTER ASSEMBLY
1	D4054-001	TUBE ASSEMBLY
1	D4054-003	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY
1	D3299-7	FITTING
1	AN815-8D	UNION
1	AN833-8D	ELBOW
1	AN924-8D	NUT
2	MS29512-08	O-RING

**WEIGHT AND BALANCE:**  
NO CHANGE

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

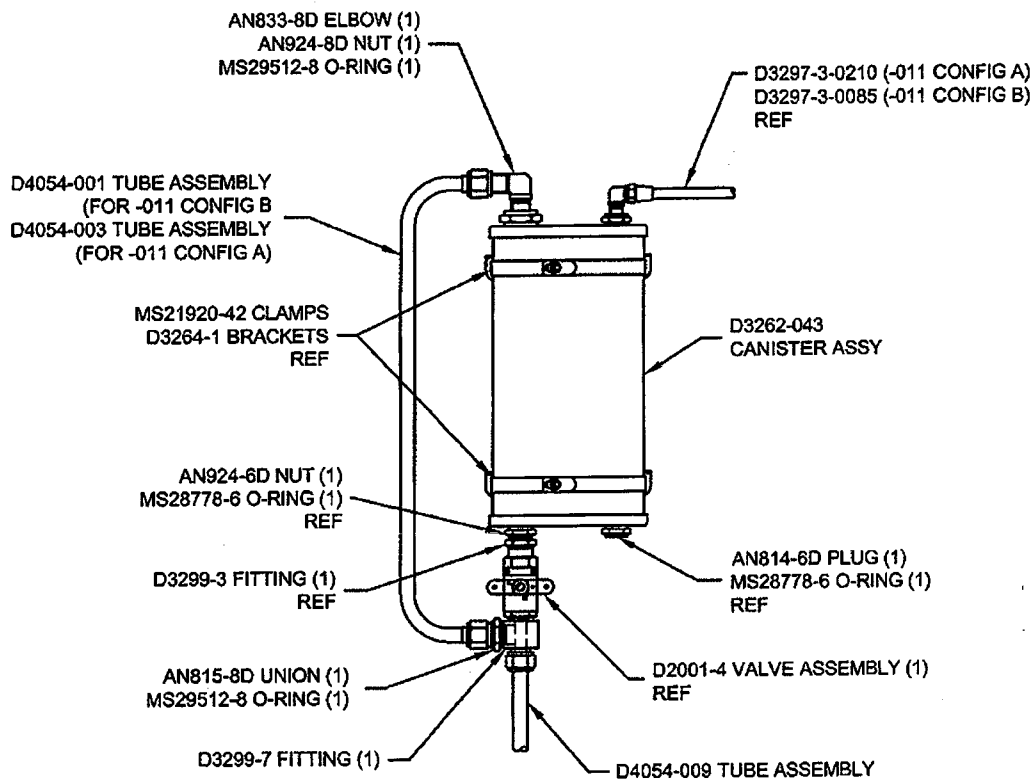
APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 10.01.07  
CERT. NO.: SH04-54  
ISSUE NO.: 1

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DRAWN	RF	
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MFG. APPR.	<del>RF</del>	DSI 9494 SHEET 2 OF 3
APPROVED	<del>RF</del>	TITLE SCALE
DE APPR.	<del>RF</del>	212/412 CANISTER UPGRADE KIT NTS
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8  
REFERENCE ONLY



**FIGURE 1. CANISTER ASSEMBLY**  
(-011 INSTALLATION AT CHG 002)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 10.01.07  
CERT. NO.: SH04-54  
ISSUE NO.: 1

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DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO. <b>DSI 9494</b>	REV. A
MFG. APPR.	<i>[Signature]</i>	SHEET 3 OF 3	
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>212/412 CANISTER UPGRADE KIT</b>	NTS
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